

FF FFFFFFFF 000000 RRRRRRRR IIIIII DDDDDDDD AAAAAA TTTTTTTT EEEEEEEE
FF FFFFFFFF 000000 RRRRRRRR IIIIII DDDDDDDD AAAAAA TTTTTTTT EEEEEEEE
FF 00 00 RR RR II DD DD AA AA TT EE
FF 00 00 RR RR II DD DD AA AA TT EE
FF 00 00 RR RP II DD DD AA AA TT EE
FF 00 00 RR RR II DD DD AA AA TT EE
FF FFFFFF 00 00 RRRRRRRR II DD DD AA AA TT EEEE
FF FFFFFF 00 00 RRRRRRRR II DD DD AA AA TT EEEE
FF 00 00 RR RR II DD DD AAAAAAAA TT EE
FF 00 00 RR RR II DD DD AAAAAAAA TT EE
FF 00 00 RR RR II DD DD AA AA TT EE
FF 00 00 RR RR II DD DD AA AA TT EE
FF 000000 RR RR IIIIII DDDDDDDD AA AA TT EEEE
FF 000000 RR RR IIIIII DDDDDDDD AA AA TT EEEE

(2) 49 HISTORY ; Detailed Current Edit History
(3) 58 DECLARATIONS
(4) 84 FOR\$IDATE - return month, day, year as INTEGER*2

0000 1 .TITLE FOR\$IDATE ; Time and date as short integers
0000 2 .IDENT /1-002/ ; File: FORIDATE.MAR
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 FACILITY: FORTRAN SYSTEM LIBRARY
0000 30 ++
0000 31 ABSTRACT:
0000 32
0000 33 Return current month, day, and year as one-word integer values.
0000 34
0000 35 --
0000 36
0000 37 VERSION: 0
0000 38
0000 39 HISTORY:
0000 40
0000 41 AUTHOR:
0000 42 Jonathan M. Taylor, 17-Aug-77: Version 0
0000 43
0000 44 MODIFIED BY:
0000 45
0000 46
0000 47

FOR\$IDATE
1-002

J 15
; Time and date as short integers 15-SEP-1984 23:53:01 VAX/VMS Macro V04-00
HISTORY ; Detailed Current Edit History 6-SEP-1984 10:56:21 [FORRTL.SRC]FORIDATE.MAR;1 Page 2
1- FC

0000 49 .SBTTL HISTORY ; Detailed Current Edit History
0000 50
0000 51
0000 52 ; Edit History for Version 0 of FOR\$IDATE
0000 53
0000 54 ; 0-2 - Remove FOR\$FLAG_JACKET. TNH 11-July-78
0000 55 ; 1-001 - Update version number and copyright notice. JBS 16-NOV-78
0000 56 ; 1-002 - Add "_" to the PSECT directive. JBS 22-DEC-78

```
0000 58 .SBttl DECLARATIONS
0000 59
0000 60
0000 61 : INCLUDE FILES:
0000 62 : oerr.mar
0000 63
0000 64
0000 65 : EXTERNAL SYMBOLS:
0000 66 :
0000 67
0000 68
0000 69 : MACROS:
0000 70 :
0000 71
0000 72 :
0000 73 : PSECT DECLARATIONS:
0000 74 .PSECT _FOR$CODE PIC, SHR, LONG, EXE, NOWRT
0000 75
0000 76 :
0000 77 : EQUATED SYMBOLS:
0000 78 :
0000 79
0000 80 :
0000 81 : OWN STORAGE:
0000 82 : none
```

0000 84 .SBTTL FOR\$IDATE - return month, day, year as INTEGER*2
 0000 85
 0000 86 ++
 0000 87 : FUNCTIONAL DESCRIPTION:
 0000 88
 0000 89 : FOR\$IDATE uses system service \$NUMTIM to get date information.
 0000 90 : This information is converted to the appropriate type and stored
 0000 91 : through the addresses passed as parameters.
 0000 92
 0000 93 : CALLING SEQUENCE:
 0000 94
 0000 95 CALL FOR\$IDATE (month.ww.r, day.ww.r, year.ww.r)
 0000 96
 0000 97 : INPUT PARAMETERS:
 0000 98
 0000 99 : month.ww.r adr of word to place month (1-12) integer
 0000 100 : day.ww.r adr of word to place day (1-31) integer
 0000 101 : year.ww.r adr of word to place year (0-99)integer
 0000 102
 0000 103 : IMPLICIT INPUTS:
 0000 104 : NONE
 0000 105
 0000 106 : OUTPUT PARAMETERS:
 0000 107 : NONE
 0000 108
 0000 109 : IMPLICIT OUTPUTS:
 0000 110 : NONE
 0000 111
 0000 112 : COMPLETION CODES:
 0000 113 : NONE
 0000 114
 0000 115 : SIDE EFFECTS:
 0000 116 : SIGNALS Integer Overflow (this should never happen)
 0000 117
 0000 118 :--
 0000 119
 0000 120
 0000 121
 5E 10 4000 0000 122 .ENTRY FOR\$IDATE, ^M<IV>
 50 5E D0 0002 123 SUBL #16, SP : save 8 words for \$NUMTIM
 50 5E D0 0005 124 MOVL SP, R0 : R0 -> data area
 50 8E 3C 0008 125 \$NUMTIM_S (R0) : get system time values
 50 8E 3C 0013 126 MOVZWL (SP)+, R0 : R0 = 'year since 0'
 50 51 D4 0016 127 CLRL R1 : R0 is now a quadword value
 0C BC 50 0018 128 EDIV #100, R0, R0, R0 : R0 = two digit year value
 04 BC 8E 0021 129 MOVW R0, @12(AP) : return year
 08 BC 6E 0025 130 MOVW (SP)+, @4(AP) : return month
 04 0029 131 MOVW (SP), @8(AP) : return day
 04 002D 132 RET : return
 002E 133
 002E 134
 002E 135 .END

50	50	50	00000064	4000	0000	122	.ENTRY FOR\$IDATE, ^M<IV>	
5E	10	C2	0002	0002	123	SUBL #16, SP	: save 8 words for \$NUMTIM	
50	5E	D0	0005	124	MOVL SP, R0	: R0 -> data area		
			0008	125	\$NUMTIM_S (R0)	: get system time values		
50	8E	3C	0013	126	MOVZWL (SP)+, R0	: R0 = 'year since 0'		
			0016	127	CLRL R1	: R0 is now a quadword value		
0C	BC	50	0018	128	EDIV #100, R0, R0, R0	: R0 = two digit year value		
04	BC	8E	0021	129	MOVW R0, @12(AP)	: return year		
08	BC	6E	0025	130	MOVW (SP)+, @4(AP)	: return month		
			0029	131	MOVW (SP), @8(AP)	: return day		
			04	132	RET	: return		
			002D	133				
			002E	134				
			002E	135				

